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<u>L1</u> dock\$3 same (port near10 (media or medium or disk or disc)) 203 <u>L1</u>

**END OF SEARCH HISTORY** 

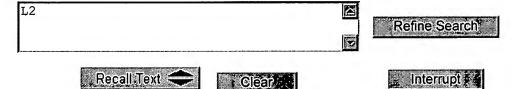
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L2 L1

DB=PGPB, USPT, USOC; PLUR=YES; OP=OR

<u>L1</u> dock\$3 same (port near10 (media or medium or disk or disc))

**END OF SEARCH HISTORY** 

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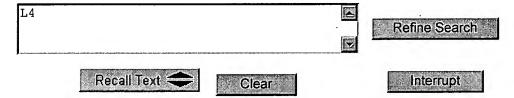
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<u>L4</u> 11 and L3

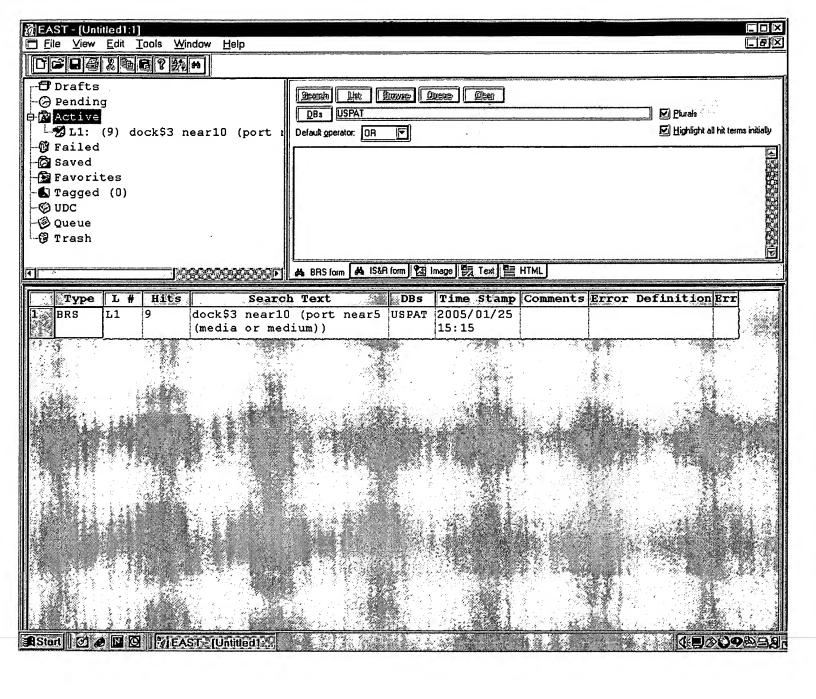
<u>L3</u> 710/1,104,105,303,304,100,62,72;709/227,249,223,236;370/400,402,902,907,813,913;398/118,1 DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

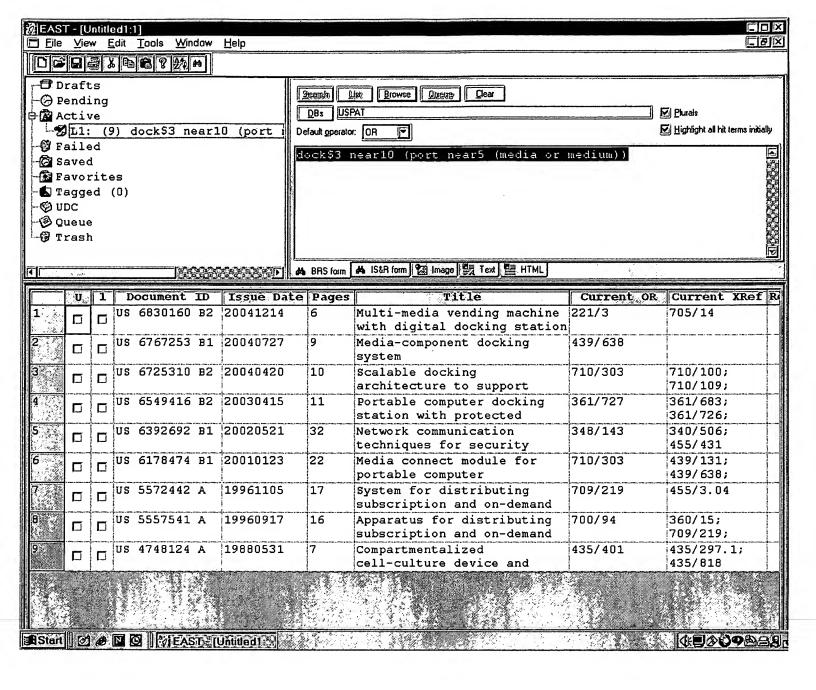
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| 00          | By Author Basic Advanced CrossRef   | 1 Experimental study of airflow and particle characteristics of a 300-I POUP/LPU minienvironment system Shih-Cheng Hu; Tzong-Ming Wu; Semiconductor Manufacturing, IEEE Transactions on , Volume: 16 , Issue: 4 , 2003   |
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# Object model creation from multiple range images: acquisition, calibration, model building and verifica-

Beraldin, J.-A. Cournoyer, L. Rioux, M. Blais, F. El-Hakim, S.F. Godin, G. Inst. for Inf. Technol., Nat. Res. Council of Canada, Ottawa, Ont., Canada; This paper appears in: 3-D Digital Imaging and Modeling, 1997. Proceec **International Conference on Recent Advances in** 

Meeting Date: 05/12/1997 - 05/15/1997

Publication Date: 12-15 May 1997 Location: Ottawa, Ont. Canada

On page(s): 326 - 333 Reference Cited: 12 Number of Pages: x+353

Inspec Accession Number: 5596210

#### Abstract:

This paper demonstrates the accuracy of a prototype Laser Range Camera (LF developed at the National Research Council of Canada for the creation of mod objects. A laser survey performed in collaboration with the Canadian Space A NASA is used as a test case. The object selected for this particular test case is **Docking** System (ODS) located at the Kennedy Space Center, Florida. Durinc survey, 128 range (and registered intensity) images were acquired all around These images were then **processed** in our laboratory. A full model of the top the ODS was created along with an almost complete model of the ODS. The O diameter of 1.6 m and a height of 3.9 m. Targets mounted on the top portion. ODS were used to assess the accuracy of the calibration and of the image req **process.** These targets were measured with a network of theodolites a day p laser survey and used as a reference. With the current calibration and range i registration techniques, an accuracy better than 0.25 mm in X and Y, and, 0.8 was achieved. These results compare favorably with the single point accuracy after calibration, i.e., about 0.25 mm in X and Y, and, 0.50 mm in Z. These fiothers should testify on the usefulness of a LRC for accurate model building

#### **Index Terms:**

calibration image registration solid modelling virtual reality calibration image regist process laser survey model building multiple range images object model creation docking system prototype laser range camera single point accuracy theodolites

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L4: Entry 2 of 38 File: PGPB Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040148445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040148445 A1

TITLE: Docking station for portable computer

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Lee, Cheon-Moo Suwon city KR Lee, Il-Han Seoul city KR

ASSIGNEE-INFORMATION:

NAME CITY STATE COUNTRY TYPE CODE

SAMSUNG ELECTRONIC CO., LTD. Suwon-city KR 03

APPL-NO: 10/ 679320 [PALM]
DATE FILED: October 7, 2003

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO DOC-ID APPL-DATE

KR 2003-4884 2003KR-2003-4884 January 24, 2003

INT-CL:  $[07] \underline{G06} \underline{F} \underline{13}/\underline{12}$ 

US-CL-PUBLISHED: 710/072 US-CL-CURRENT: 710/72

REPRESENTATIVE-FIGURES: 2

### ABSTRACT:

A network connection state can be conveniently changed to a wired or a wireless connection state according to whether a portable computer body is attached to a docking station including an Access Point part or not.

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L4: Entry 12 of 38 File: USPT Jan 23, 2001

US-PAT-NO: 6178474

DOCUMENT-IDENTIFIER: US 6178474 B1

TITLE: Media connect module for portable computer

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Hamano; Takeshi San Jose CA Sathe; Samir Sunnyvale CA Pillai; Manu San Jose CA Kim; Darren Oakland CA Yamada; Isamu San Jose CA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE Fujitsu Limited JP 03

APPL-NO: 09/ 093526 [PALM]
DATE FILED: June 8, 1998

INT-CL: [07] G06 F 13/00

US-CL-ISSUED: 710/101; 710/62, 710/106, 710/129, 710/2, 439/638, 439/131 US-CL-CURRENT: 710/303; 439/131, 439/638, 710/106, 710/2, 710/300, 710/62

FIELD-OF-SEARCH: 710/100, 710/2, 710/62, 710/101, 710/102, 710/103, 710/129, 710/128, 710/73, 710/106, 710/11, 710/72, 439/638, 439/502, 439/629, 439/131, 361/683

361/683

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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| PAT-NO         | ISSUE-DATE                    | PATENTEE-NAME   | US-CL   |
|----------------|-------------------------------|---|---|
| 5687387        | November 1997                 | Endejan et al.  | 710/2   |
| 5736727        | April 1998                    | Nakata et al.   | 235/487   |
| 5805833        | September 1998                | Verdum  | 710/101   |
| <u>5954827</u> | September 1999                | Frank et al.  | 714/48  |
|                | 5687387<br>5736727<br>5805833 | 5687387       November 1997         5736727       April 1998         5805833       September 1998 | 5687387       November 1997       Endejan et al.         5736727       April 1998       Nakata et al.         5805833       September 1998       Verdum |

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ART-UNIT: 271

PRIMARY-EXAMINER: Etienne; Ario

ATTY-AGENT-FIRM: Coudert Brothers

#### ABSTRACT:

A module which may be connected to an I/O port of a notebook computer to provide an enhancement to the number of connectivity options available to a user of the computer. The module houses a set of connectors, some or all of which may be specialized ones not normally found on the computer. The connectors are electrically connected to an I/O port of the computer by a flexible cable that allows the module to be easily positioned or re-positioned by the user. The flexibility of the connection allows the user to easily satisfy the line of sight requirement when using the infrared port for data transmission.

41 Claims, 20 Drawing figures

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L4: Entry 37 of 38 File: USPT Jan 30, 1996

US-PAT-NO: 5488572

DOCUMENT-IDENTIFIER: US 5488572 A

TITLE: Portable computer system for docking to an expansion base unit

DATE-ISSUED: January 30, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Belmont; Brian V. Houston TX

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Compaq Computer Corp. Houston TX 02

APPL-NO: 08/ 237778 [PALM]
DATE FILED: May 4, 1994

INT-CL: [06]  $\underline{G06}$   $\underline{F}$   $\underline{13}/\underline{14}$ 

US-CL-ISSUED: 364/514R; 364/708.1, 395/325, 395/882, 395/306, 361/683, 361/686,

360/99.06, 439/374, 439/296

US-CL-CURRENT: 710/62; 360/99.06, 361/683, 361/686, 439/296, 439/374, 710/303

FIELD-OF-SEARCH: 364/514, 364/708.1, 395/500, 395/800, 395/275, 395/325, 361/683,

361/681, 361/686, 360/69, 360/99.06, 439/374, 439/296

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PRIOR-ART-DISCLOSED:

#### U.S. PATENT DOCUMENTS

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| PAT-NO         | ISSUE-DATE     | PATENTEE-NAME   | US-CL   |
|----------------|----------------|-----------------|---------|
| 4769764        | September 1988 | Levanon         | 364/708 |
| 4894792        | January 1990   | Mitchell et al. | 364/708 |
| 4903222        | February 1990  | Carter et al.   | 364/708 |
| 5030128        | July 1991      | Herron et al.   | 439/372 |
| 5175671        | December 1992  | Sasaki          | 361/392 |
| 5182687        | January 1993   | Campbell et al. | 360/92  |
| <u>5187645</u> | February 1993  | Spalding et al. | 361/393 |
|                |                |                 |         |

| <u>5212605</u> | May 1993       | Lim et al.         | 360/99.06 |
|----------------|----------------|--------------------|-----------|
| 5249103        | September 1993 | Forsythe           | 361/730   |
| 5257387        | October 1993   | Richek et al.      | 395/800   |
| <u>5260925</u> | November 1993  | Camps et al.       | 369/77.1  |
| 5264992        | November 1993  | Hogdahl et al.     | 367/681   |
| 5265238        | November 1993  | Canova, Jr. et al. | 395/500   |
| 5299322        | March 1994     | Arai et al.        | 395/275   |
| 5310358        | May 1994       | Johnson et al.     | 439/358   |
| <u>5313596</u> | May 1994       | Swindler et al.    | 395/325   |
| 5323291        | June 1994      | Boyle et al.       | 361/683   |
| 5347425        | September 1994 | Herron et al.      | 361/683   |
| <u>5377357</u> | December 1994  | Nishigaki et al.   | 395/800   |
| 5394552        | February 1995  | Shirota            | 395/750   |

#### OTHER PUBLICATIONS

Smart Station, Installation & Operations Guide, Compaq Computer Corp., pp. 4-1 to 4-21, 5-6 to 5.varies.12 (1994).

ART-UNIT: 244

PRIMARY-EXAMINER: Ramirez; Ellis B.

ASSISTANT-EXAMINER: Assouad; Patrick J.

ATTY-AGENT-FIRM: Pravel, Hewitt, Kimball & Krieger

#### ABSTRACT:

A notebook computer system for docking to a motorized expansion base unit. Before the actual docking event occurs, the notebook computer system communicates with the expansion base unit via a sense signal, which is provided by the notebook computer to indicate the power state of the notebook computer. If the expansion base unit determines that the notebook computer is in a proper state for docking, it activates its motor to load the notebook computer. Once docked, the notebook computer runs a resource conflict check routine to determine if resource conflicts occur. A fatal conflict occurs when the resource requirements of bus devices connected to the expansion base unit conflict with the resource requirements of a video controller or hard disk drive connected to the notebook computer. When such a fatal conflict occurs, the notebook computer issues a software eject request to expansion base unit. In response, the expansion base unit undocks the notebook computer. A non-fatal conflict occurs when the resource requirements of the expansion base unit devices conflict with the resource requirements of PCMCIA cards inserted into the PCMCIA slots of the notebook computer. Unlike the case of a fatal conflict, the notebook computer responds to a non-fatal conflict by disabling the offending devices in the expansion base unit.

16 Claims, 22 Drawing figures

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